DOLCOPOL'SKAYA, M.A.; AKSEL'BAND, A.M.

Effect of ultrasonic onc.llations on the organisms of merine fouling and the process of fouling. Trudy SBS 17:309-324 '64.

(MIRA 18:6)

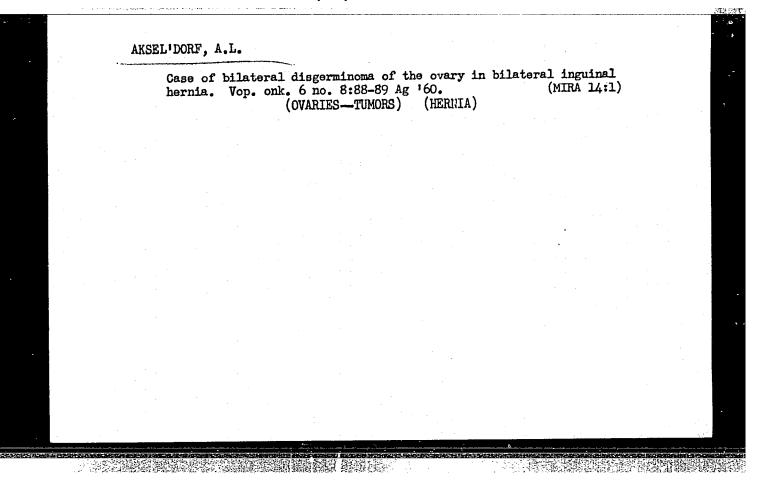
APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100710020-0"

AKSEL'BAND, A.M., dotsent, nauchnyy sotrudnik; KRAVCHENKO, N.A., inzh., nauchnyy sotrudnik; ASNER, B.G., rabotnik

Reducing the static electricity buildup of yan made from rayon and synthetic fibers. Tekst. prom. 24 no.4:70-72 Ap 164.

(MIRA 17:6)

1. Odesskiy institut inzhenerov Morskogo flota (OIIMF) (for Aksel¹band, Kravchenko). 2. Odesskaya trikotazhnaya fabrika imeni NiK. Krupskoy (for Asner).



AKSEL'DORF. A.L.

Inflammatory tumor of the omentum at the site of a foreign body which has perforated the intestine. Kaz. med. zhur. no.6:60-61 N-D '61. (MIRA 15:2)

l. Kujbyshevskaya gorodskaya tsentral'naya bol'nitsa imeni N.I.
Pirogova (glavnyy vrach - K.P.Zhil'tsova).
(OMENTUM_TUMORS)

AKSEL'DORF, A. L.; ORKIN, Ye. A.

Prolapse of a fibromyxoma of the urinary bladder from the urinary canal in a 1-year-old child. Urologiia no.2:61-62 '62. (MIRA 15:4)

1. Iz urologicheskogo otdeleniya Kuybyshevskoy tsentral'noy gorodskoy bol'nitsy imeni N. I. Pirogova.

(BLADDER-TUMORS)

Chyluria and pyelolymphatic reflux. Urologiia no.6:56-58'62.

1. Iz urologicheskogo otdeleniya (konsul'tant - dotsent V.P. Smelovskiy) Kuybyshevskoy gorodskoy tsentral'noy bol'nitsy imeni N.I.Pirogova.

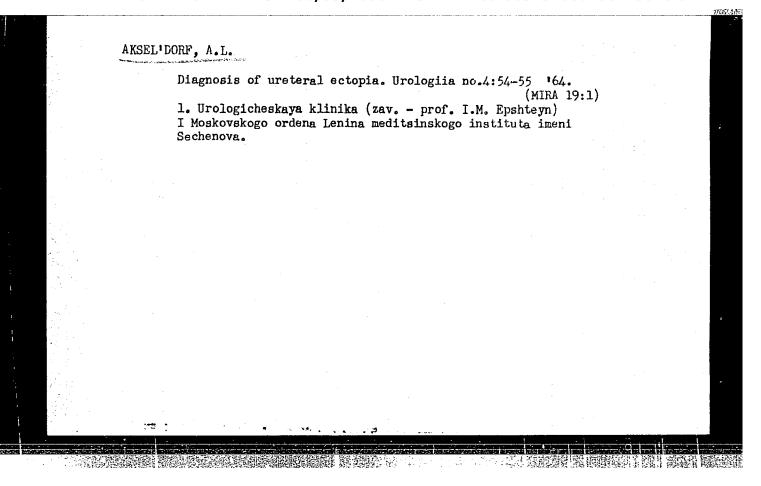
(CHYLE) (URINE—ANALYSIS AND PATHOLOGY)

(LYMPHATICS—DISEASES)

AKSEL'DORF, A.L. (Kuybyshev (obl), ul. Nekrasova, 21, kv.2)

Epididymal fibroma. Vop. onk. 9 no.7:99-101 163 (MIRA 16:12)

l. Iz rozhdestvenskoy uchastkovoy bol'nitsy Kuybyshevskoy oblasti.



1. Kafedra urologii (28v prof. 1.M.Epshteyn) l Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.		Rudime	ntary	kldnay.	Urola	i nefr.	30 no.l:52-	-54 Ja-1	የ ነዕታኤ (MIR	A 18:11)
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AKSEL'DORF, A.L.; GLEYZER, Yu.Ya.

Radioisotopic renography in the diagnosis of a "silent" kidney. Sov. med. 28 no.8:52-56 Ag '65. (MIRA 18:9)

1. Urologicheskaya klinika (zav. - prof. 1.M.Epshteyn) i biofizicheskaya laboratoriya (zav. - doktor med. nauk V.G. Spesivtseva) fakul testskoy terapevticheskoy kliniki l Moskovskogo ordena Lenira meditsinskogo instituta imeni Sechenova.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100710020-0"

EPSHTEYN, I.M., prof.; SPESIVTSEVA, V.G.; GLEYZER, Yu.Ya.; AKSEL'DORF, A.L.

Isotope renography in urological practice. Med. rad. 10 no.11: 45-54 N 165. (MIRA 19:1)

1. Urologicheskaya klinika (zav. - prof. I.M. Epshteyn) i klinika fakul'tetskoy terapii (zav. - prof. Z.A. Bondar') I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.
Submitted November 11, 1964.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100710020-0"

VEL'TMAN, R.P.; ZHUKOVSKIY, L.I.; PONOMAREV, L.Ye.; VEMYAN, A.Zh.;
BENENSON, M.P.; ZALMANENOK, V.S.; KRUPENKO, T.I.; BABICH, Z.Ye.;
GUTMAN, L.B.; ALIMOV, T.U.; YAKUNIN, P.N.; KRYZHANOVSKAYA, N.L.;
AKEEL'DORF, A.L.; MUSINA, S.A.; KLEYF, A.D.; LUTSEVICH, E.V.;
LEVINSON, O.S.; TURBINA, N.S.

Brief reports. Sov. med. 28 no.10:144-148 C 165.

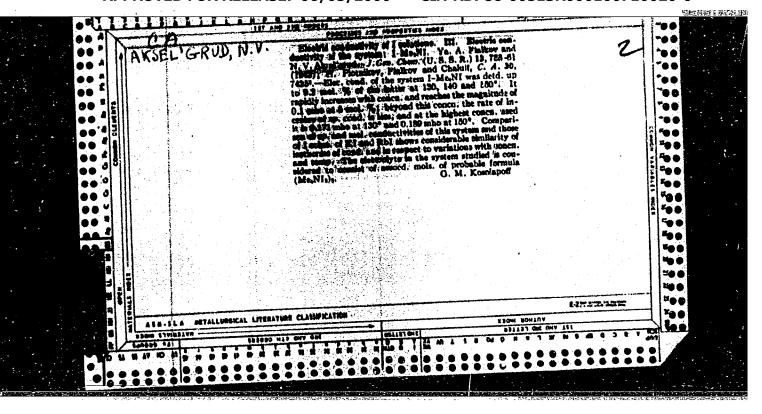
(MIRA 18:11) 1. Kiyevskiy institut tuberkuleza i grudnoy khirurgii (for Vel'tman, Zhukovskiy). 2. 3-ya kafedra khirurgii TSentral'nogo instituta usovershenstvovaniya vrachey, Moskva (for Ponomarev, Vemyan, Benenson). 3. Kafedra propedevticheskoy terapii Grodnenskogo meditsinskogo instituta i 1-ya klinicheskaya bol'nitsa imeni Solov'yeva, Grodno (for Zalmanenok, Krupenko). 4. Ukrainskiy nauchno-issledovatel'skiy institut okhrany materinstva i detstva imeni Buyko, Kiyev (for Babich, Gutman). 5. Klinika gospital'noy khirurgii Andizhanskogo meditsinskogo instituta (for Alimov). 6. Kafedra voyenno-polevoy terapii Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova, Leningrad (for Mitropol'skiy, Latysh, Murchakova). 7. Kafedra urologii I Moskovskogo ordena Lenina meditsinskogo instituta (for Aksel'dorf). 8. 4-ya infektsionnaya klinicheskaya bol'nitsa Ufy (for Musina). 9. Chernovitskaya detskaya oblastnaya klinicheskaya bol'nitsa (for Kleyf). 10. Klinika obshchey khirurgii lechebnogo fakul'teta I Moskovskogo meditsinskogo instituta imeni Sechenova i patologoanatomicheskoye otdeleniye klinicheskoy bol'nitsy No.23 imeni Medsantrud, Moskva (for Lutsevich, Levinson). (Cont. next card)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100710020-0"

VEL'TMAN, R.P.; (Continued) Card 2:

ll. Gematologicheskaya klinika TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi, Moskva (for Turbina).

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100710020-0"



MARANTS, A.G.; ZEGZHD, V.P.; TIKHCHONOVA, L.A.; SOKOLOV, V.I.; RYBNIKOV, V.A. [deceased]; DEREVYANCHENKO, L.D.; KARKLIT, A.K.; AKSEL'RAD, E.A.; SARMIN, A.P.; FEL'DGANDLER, G.G., red.; MAKSIMOV, Ye.I., red. 1zd-va KARASEV. A.E., tekhm. red.

[Handbook of refractory materials, products, and raw materials; compiled according to state standards and technical specifications] Spravochnik na ogneupornye izdeliia, materialy i syr'e. Sostavlen po gosudarstvennym standartam i tekhnicheskim usloviiam. Izd.2., ispr. i dop.. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 338 p. (MIRA 14:9)

1. Sotrudniki Vsesoyuznogo instituta ogneuporov (for all except Fell'dgandler, Maksimov, Karasev).

(Refractory materials—Standards)

SOV/5865

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PHASE I BOOK EXPLOITATION

Zegzhda, V. P., L. A. Tikhonova, V. I. Sokolov, A. G. Marants, V. A. Rybnikov [deceased], L. D. Derevyanchenko, A. K. Karklit, E. A. Aksel¹ rad, and A. P. Sarmin

Spravochnik na ogneupornyye izdeliya, materialy i syr' ye. Sostavlen po gosudarstvennym standartam i tekhnicheskim usloviyam (Handbook of Refractory Products, Materials and Raw Materials. Compiled According to State Standards and Technical Specifications) 2d ed. rev. and enl. Moscow, Metallurgizdat, 1961. 338 p. Errata slip inserted. 12,500 copies printed.

Supervisor: A. G. Marants; Ed.: G. G. Fel'dgandler; Ed. of Publishing House: Ye. I. Maksimov; Tech. Ed.: A. I. Karasev.

PURPOSE: This manual is intended for technical personnel working in ferrous and nonferrous industries and in other branches of industry and construction, for planners, designers, and personnel of technical supply administrations,

Card 1/8

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CIA-RDP86-00513R000100710020-0

Handbook of Refractory Products (Cont.)

SOV/5865

and for specialists in refractory manufacture and application.

COVERAGE: The manual deals with State standards and technical specifications for refractory ware, materials, and stock used in the construction and repair of furnaces used for smelting, heating, calcination, and distillation, and of fire chambers for boilers and dryers. The specifications also cover other thermal units used for processing under high thermal conditions, but do not include all refractory materials since approximately 10% of them have never been standardized. This edition has been enlarged by the inclusion of data on cast refractories and carbonaceous ware, as well as additional data on refractory stock, magnesite ware, forsterite ware, and metallurgical filler powders. The lists included in the manual contain State standards and specifications approved as late as Mar 1960. No personalities are mentioned. There are no references.

Card 2/8

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L 13359-63 EWP(q)/EWT(m)/BDS AFFTC/ASD JD/JG ACCESSION NR: AT3002323 S/2928/62/000/003/0003/0028

AUTHOR: Akselirad N. V.

56

TITLE: Composition and various properties of basic chlorides and hydroxides of rare-earth elements n

SOURCE: AN UkrRSR. Institutut zahal'noyi ta neorhanichnoyi khimiyi Raboty po khimii rastvorov i kompleksnykh soyedineniy, no. 3, 1962. Khimiya rastvorov redkozemel'nykh elementov, 3-28.

TOPIC TAGS: rare-earth element, hydroxide, basic chloride, activity product, isobaric potential, quasi-equilibrium system

ABSTRACT: The rare-earth element (REE) hydroxides and basic chlorides were investigated with respect to their composition, method of preparation and properties.

1. Composition of basic chlorides. They have the general formula M(OH)₃Cl and M(OH)_{8.5}Cl_{0.5}. Ce(OH)_{8.55}Cl_{0.67} and Pr(OH)_{8.55}Cl_{0.34} are also known. Decrease in activity of metal ion and aging cause formation of more basic salt, i.e., salt approaching M(OH)₅.

2. pH of precipitation of basic chlorides and hydroxides. pH of Card 1/3

L 13359-63 ACCESSION NR: AT3002323

the heterogeneous systems $M^{n+}-OH^--Cl^--H_0O$ was established; its dependence on nature of the ions, their activity, concentration and

condition of solutions and precipitates is discussed.

3. Activity products and isobaric potentials of REE basic chlorides and hydroxides. Original and literature data are summarized. Dependence of activity product on concentration and activity of ions in quasi-equilibrium systems. The greater the concentration the greater the recrystallization, the activity product is lowered and isobaric potential increased.

Changing ma of basic salts and hydroxides in the aging process:

activity product decreases with aging. Dependence of π_a and ΔZ^0 of REE basic chlorides and hydroxides on periodic number: ΔZ^0 generally decreases; $\lg \pi_a$ generally increases with atomic number in the scandium and lantanoid subgroups. The

second periodicity in the lantanoid group is discussed. 4. Basic properties of REE hydroxides. REE are the most basic of all trivalent elements although some, e.g. scandium, also show acidic properties. With increase in atomic number the pHo of the basic chlorides and hydroxides decreases. The various positions of the central elements of the REE series, especially Y, in the alkalinity

SOV/124-58-11-13027

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 11, p 167 (USSR)

AUTHOR: Aksel' rad. E. L.

A Method for Computation of Shells With Nonhomogeneous Thermoelastic Properties and Application of This Method to Bimetallic Elements Employed in Instruments (Raschet neodnorodnykh po termouprugim svoystvam obolochek i yego primeneniye'k bimetal-

licheskim elementam priborov)

PERIODICAL: Tr. Leningr. in-t aviats. priborostr., 1957, Nr 24, pp 41-96

ABSTRACT: The method presented takes into account the appearance of thermal stresses and permits computation of bimetallic elements having the

shape of strips or surfaces of revolution. In the beginning of the article, the author reduces the general problem on the deformation of a shell with varying elastic constants, with due allowances for the effects of temperature, to the problem of the deformation of a homogeneous and uniformly heated shell which is subjected to a certain load. The second part of the article is devoted to the solu-

tion of specific problems dealing with the determination of stresses Card 1/2 and strains in bimetallic shells and plates. The computations are

TITLE:

A Method for Computation of Shells With Nonhomogeneous Thermo-elastic (cont.) substantiated by experimental data.

Ye. F. Burmistrov

Card 2/2

SOV/124-58-8-9329 D

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 136 (USSR)

AUTHOR:

Aksel'rad, E.L.

TITLE:

The Calculation of Thermoelastically Nonhomogeneous Shells and Its Application to Bimetallic Instrument Parts (Raschet neodnorodnykh po termouprugim svoystvam obolochek i yego primeneniye k bimetallicheskim elementam priborov)

ABSTRACT:

Bibliographic entry on the author's dissertation for the degree of Candidate of Technical Sciences, presented to the Leningr. in-t aviats. priborostr. (Leningrad Institute of Aircraft-instrument Construction), Leningrad, 1958

ASSOCIATION: Leningr. in-t aviats. priborostr. (Leningrad Institute of Aircraft-instrument Construction), Leningrad

Card 1/1

Deformation of a cantilever bimetallic plate subjected to heating. Izv. vys. ucheb. zav.; prib. no.4:108-116 '58.

(MIRA 12:7)

1.Vsesoyuznyy zaochnyy lesotekhnicheskiy institut.

(Elastic plates and shells)

AUTHOR: Aksel'rad, E.L. (Leningrad) SOV/24-58-6-11/35

TITLE: On the Theory of Inhomogeneous Isotropic Shells (K teordineednorodnykh izotropnykh obolochek)

PERIODICAL: Izvestiya Akademii Nauk SSSR Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 6, pp 73-76 (USSR)

ABSTRACT: It is shown that the theory of homogeneous shells can be applied to shells having an arbitrary variation of the modulus of elasticity through their thickness (for bimetallic shells the problem has been solved in Ref 2). The thickness of the shell is assumed constant and small. The material of the shell follows Hook's law for elastic constants which vary through the volume. The displacements and deformations in an inhomogeneous shell are defined by displacements and deformations of some initial surface just as for homogeneous shells these quantities are defined by the deformations and displacements of the mean surface. Expressions for the deformations of the initial surface of the inhomogeneous shell coincide with the corresponding expressions for the homogeneous shell.

On the Theory of Inhomogeneous Isotropic Shells

The equilibrium equations for the element of the shell are identical in form with the corresponding equations in the theory of homogeneous shells. The position of the initial surface is determined so that the potential energy is obtained in a simple form which is similar to that for a homogeneous shell.

There are 1 figure and 7 Soviet references SUBMITTED: March 10, 1956

Card 2/2

Aksel'rad, E. L. (Leningrad) SOV/24-58-8-8/37 AUTHOR:

On Temperature Deformations in Non-uniform Shells (O temperaturnykh deformatsiyakh neodnorodnykh obolochek) TITLE:

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 8, pp 48-52 (USSR)

ABSTRACT: The author determines the load causing the same deformation as a given variation of the temperature for a shell with elastic properties and the temperature distribution coefficient arbitrarily variable (in volume). Since the problem of the deformation by an external load of a shell with non-uniform elastic properties through its thickness leads to the corresponding problem of a uniform shell (Ref 1), the temperature problem for a shell which is non-uniform through its thickness leads to the static problem for a uniform shell. The important practical case is considered when:

$$P = \frac{\beta E t}{1 - 2\sqrt{3}} = P(z)$$

is the coefficient of linear expansion, where is Young's modulus, Card 1/3 Ė

On Temperature Deformations in Non-uniform Shells SOV/24-58-8-8/37

t is the temperature,

V is Poisson's coefficient and

z is normal to the surface.

It is thus shown that if the temperature expansion and the elastic properties of the material vary only through the thickness of the shell, then, under the influence of the temperature variation, the shell has uniform expansion defined by the equation

$$\frac{1 - \gamma_c}{E_c h} T_p = const$$

where \mathbf{v}_c , \mathbf{E}_c are the Poisson coefficient and the modulus of elasticity for the shell in tension and compression, and

$$T_p = \int_{z_-}^{z_+} pdz$$
, $p = \beta Et/(1 - V)$

Card 2/3 on which is imposed a deformation due to the action of a

On Temperature Deformations in Non-uniform Shells SOV/24-58-8-8/37

moment $\mathbf{M}_{\mathbf{p}}$ applied at the free boundary of the shell and to the supporting reactions. It is important that the above is true for a shell of any shape and for the case when the displacements due to external loads and temperature variations are not small. There are 2 figures and 6 Soviet references.

SUBMITTED: March 10, 1957

1. Elastic shells--Deformation 2. Elastic shells--Temperature factors 3. Elastic shells--Mathematical analysis

Card 3/3

AKSEL'RAD, E. L., Candidate Tech Sci (diss) -- "Some problems in the theory of membranes with heterogeneous thermoelastic properties". Leningrad, 1959. 15 pp (Min Higher Educ USSR, Leningrad Polytech Inst im M. I. Kalinin), 150 copies (KL, No 26, 1959, 124)

SOV/179-59-1-25/36

AUTHOR: Aksel'rad, E. L. (Leningrad)

TITLE: Bending of Thin-Walled Beams with Open Sloping Profiles Under Large Elastic Displacements (Izgib tonkostennykh sterzhney s razomknutym pologim profilem pri bol'shikh uprugikh peremeshcheniyakh)

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1959, Nr 1, pp 150-153 (USSR)

ABSTRACT: The paper is a continuation of earlier work (Ref.3). The beam is end-loaded, and there is a temperature gradient through the thickness of the wall. If the elastic properties vary through the thickness of the wall, it is necessary to use the effective Young's moduli and Poisson's ratios in tension (E', V') and in bending (E", V") (Ref.3). The radial displacements and the bending moment caused by the temperature gradient are determined mathematically and the deflections of beams with different profiles are shown graphically. The stability of a beam under a bending moment at its end is

Card 1/2

SOV/179-59-1-25/36 Bending of Thin-Walled Beams with Open Sloping Profiles Under Large Elastic Displacements

also discussed. The results are applied to determining the thermal deformation of bimetallic strips and spirals. Phere are 3 figures and 7 references, 2 English, 4 Sovie; and 1 German.

SUBMITTED: April 14, 1958.

Card 2/2

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100710020-0"

AUTHOR:

Aksel'rad, E.L., Engineer

SOV/122-59-2-3/34

TITIE:

Contribution to the Problem of the Design Analysis of the Geneva Mechanism (K voprosu rascheta mekhanizma

mal'tiyskogc kresta)

PERIODICAL: Vestnik Mashinostroyeniya, 1959, Nr 2, pp 11-14 (USSR)

ABSTRACT:

In the practice of machine tool applications of geneva mechanisms, the case of locking due to delayed withdrawal of a tool, the sticking of the workpiece in loading or unloading or the accidental presence of other objects must be considered. Previous stress analysis was based on the resistance loads in normal operation. The present paper deals with the stressing of geneva mechanisms in the case of wedging. The analysis leads to a formula (Eq 5) for the ratio of the geneva cam torque and the driving arm torque. This formula contains the actual clearances between the roller and the slot. A

simplified formula (Eq 5') can be used in most instances. Numerical examples are given. It follows that the

wedging case needs a special stress check and may call for a load limiting device or a strength based on the

Card 1/2

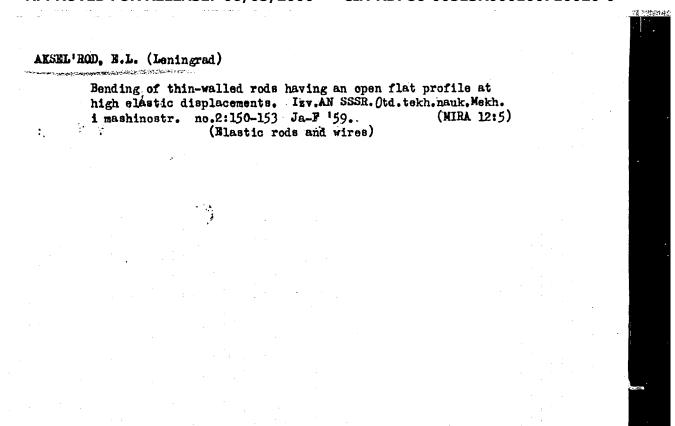
SOV/122-59-2-3/34

Contribution to the Problem of the Design Analysis of the Geneva Mechanism

maximum driving torque. There are 3 figures and 2 Soviet references.

Card 2/2

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100710020-0"



APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100710020-0"

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24,4100

AUTHOR:

Aksel'rad, E.L. (Leningrad) SOV/179-59-5-37/41

TITLE:

Small Deflections of an Isotropic Plate Having

Inhomogeneous Thermal Properties

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh

nauk, Mekhanika i mashinostroyeniye, 1959, Nr 5,

pp 176-177 (USSR)

ABSTRACT:

The paper is a continuation of previous work (Ref 3). The deflection is discussed of a thin plate in which the elastic properties vary through the thickness, for example a bimetal. Using the previous results of the author and other workers, the governing differential equation is derived and solved for a plate with free edges. The equation appropriate to clamped and supported

edges is also given. There are 4 Soviet references.

SUBMITTED: October 13, 1958

Card 1/1

24(8) AUTHOR:

Aksel'rad, E. L., Engineer

SOV/119-59-9-4/19

TITLE:

The Exact Calculation of the Deformation of Thermobimetallic

Strips and Spirals

PERIODICAL:

Priborostroyeniye, 1959, Nr 9, pp 11-14 (USSR)

ABSTRACT:

According to the opinion of the author, the formula for the deformation of bimetals generally used in publications deviates considerably from experimental data. This is generally known, but no explanation has been found hitherto. The formula in

question has the following form: $\frac{1}{R} - \frac{1}{R} = \frac{3}{2} \frac{\beta_1 - \beta_2}{hk_{mn}}$ t, where $k_{mn} = 1 + \frac{(1-mn^2)^2}{4 mn(1+m)^2}$, and $\frac{1}{R} - \frac{1}{R}$ denotes the curvature of the

strip, β_1 - β_2 the coefficients of the linear thermal expansion of the bimetal strips, t the change in temperature, $m = h_2/h_1$, $n = E_2/E_1$, the ratios of the thickness and of the modules of

Card 1/3

Exact Calculation of the Deformation of Mermobimetallic Strips and Spirals

sov/119-59-9-4/19

elasticity of the bimetal layers, h the thickness of the strip, and b the width of the strip. The reason for the discrepancy between experiment and formula is to be sought, according to the author, solely in the variable values of the quantities m, n, β_1 - β_2 for bimetal strips of one and the same make. In the author's opinion the above formula does not take into account the influence of shape, width, and fixing method of the strip ends on the amount of the deformation of the strip. Thanks to the development of the theory of shells consisting of 2 layers in the papers of Soviet scientists, especially by the Corresponding Member of the AS USSR E. I. Grigolyuk it was possible to define and solve some of the main problems of bimetal strips of finite width. The author then reports on the causes for the deviation of the curving of real strips from that of a narrow strip (which is described by the above formula). Formulas and diagrams are given for the calculation, without derivations. The author calculates the deflection and torsion angle at the end of a thermobimetal plate only fixed at one side with a variation in temperature. Under certain circumstances a broad strip is deflected more than a narrow one. The reasons for this phenomenon

Card 2/3

The Exact Calculation of the Deformation of Thermobimetallic Strips and Spirals

SOV/119-59-9-4/19

上海中国的特殊

are given. A strip which cannot alter the form of its cross section, is subject to an additional elongation of the layers compared with narrow strips, which additionally increases the longitudinal curving (by the 1 + # fold amount). Formulas for the correction of the influence of the attachment on the deflection are given. The variation in form of the transversal cross section of a wide curved strip is limited by the longitudinal strain occurring in the strip. The transversal transformations are all the slighter, and the longitudinal curving of a long strip therefore all the greater, the broader the strip and the more curved it is. A numerical example is computed. In a paper by A. I. Vorob'yev, and O. G. Katsnel'son it was also shown that a plane plate of arbitrary form is curved similarly in all directions when heated. There are 7 figures, 1 table, and 5 references, 4 of which are Soviet.

Card 3/3

s/179/60/000/04/013/027 E031/E135

24.4100 also 2308

AUTHOR 8

Aksel'rad, E.L. (Leningrad)

TITLE:

The Deformation Equations of a Shell of Rotation and the Bending of Thin-walled Columns for Large Elastic

2/0

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1960, No 4, pp 84-92

A.I. Lur'ye's equations are generalised for large elastic displacements of an anisotropic inhomogeneous shell. It is assumed that the deformation, elongation and displacement are small compared to unity. The well-known system of equations for large deflections of curved shells of rotation is derived. In the case of small displacements the results improve on the equations of Glark et al. (Refs 3-5) and in the case of large displacements of a shell of rotation they improve the equations of E. Reissner (Ref 9).

Consider a thin walled shell of rotation, in general not passing through the axis, and occupying a certain segment between two meridional planes. It is assumed that the loading (and temperature variation) is such that all meridional sections are deformed alike, Card 1/3

83314 \$/179/60/000/04/013/027 E031/E135

The Deformation Equations of a Shell of Rotation and the Bending of Thin-walled Columns for Large Elastic Displacements

and remain planes. Cylindrical coordinates r(s), z(s) (where s measures the distance from an origin on the reference meridian plane to the point of interest) are introduced. In deformation the shell is treated as a bending column. The parameters ϵ_1 , ϵ_2 , k1 and k2 of the deformation of the reference plane are defined and the equation of compatibility between deformation and displacement derived. Further equations are obtained by using the equations of elasticity which take into account the possibility of a definite anisotropy and inhomogeneity along the meridian and through the thickness. Two basic equations are now derived, the first coming from Lur'ye's equilibrium equations for an element of the shell, together with some of the relations described above, and the second coming from the elimination of the internal moments M1 and M2 from the equation of equilibrium of an element of the shell. non-linear equations contain transcendental functions which can only be removed if restrictions are laid on the angle of rotation 6. The relation of the simplified equations to other cases in the literature is considered. Even the simplified equations are Card 2/3

10.9100

5/179/60/000/006/029/036 E081/E135

AUTHOR:

Aksel'rad, E.L., (Leningrad)

TITLE:

Deformation of Shells with Variable Thermal Expansion

Through the Thickness

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1960, No. 6,

pp 158-160

TEXT: The paper is a continuation of previous work (Refs 1,3). The deformation is analysed by introducing an orthogonal system of coordinates α_1 , α_2 and α_3 ; α_1 and α_2 coincide with the lines of curvature of the initial surface, whereas $a_3 (\equiv z)$ is directed along the external normal. The elastic constants and thermal expansion are assumed to be functions of z only, so that the expansion is given by :

 $\beta t = f(z)$

(1.1)

The thermal deformation is calculated from the action of a "thermal" loading made up of: 1) a normal pressure given by

Card 1/4

\$/179/60/000/006/029/036 E081/E135

Deformation of Shells with Variable Thermal Expansion Through the Thickness

 $Z_t = T_t \left(\frac{1}{R_1} + \frac{1}{R_2}\right), \qquad T_t = \int_{-\infty}^{2+} \frac{\beta t E}{1 - \nu} dz$ (2.1)

2) a force normal to the edge contour equal to T_t ; 3) a bending moment:

 $M_t = \int_{-\infty}^{z+} \beta t \frac{E}{1-\nu} z dz$ (2.2)

applied to all edges, where R_1 , R_2 are the principal radii of curvature of the deformed initial surface, z_{-} and z_{+} are the coordinates of the internal and external surfaces of the shell. The equilibrium of a shell under the action of an arbitrary load and the thermal loading given by (2.1), (2.2) and by the static boundary conditions can be expressed, according to V.V.Novozhilov (Ref.2) by Eq.(3.1), provided the extension and shear are small compared with unity.

Card 2/4

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S/179/60/000/006/029/036 E081/E135

Deformation of Shells with Variable Thermal Expansion Through the Thickness

$$\frac{1}{A_{1}A_{3}} \left\{ \frac{\partial A_{2}T_{1}^{\circ}}{\partial \alpha_{1}} + \frac{\partial A_{1}T_{2}^{\circ}}{\partial \alpha_{2}} + \frac{\partial A_{1}}{\partial \alpha_{2}} T_{1}^{\circ} - \frac{\partial A_{2}}{\partial \alpha_{1}} T_{2}^{\circ} \right\} + \frac{T_{1}^{\circ}}{R_{1}} + X_{1} = 0 \quad (1 \rightleftharpoons 2)$$

$$\frac{1}{A_{1}A_{2}} \left[\frac{\partial A_{2}T_{1}^{\circ}}{\partial \alpha_{1}} + \frac{\partial A_{1}T_{2}^{\circ}}{\partial \alpha_{2}} \right] - \frac{T_{1}^{\circ}}{R_{1}} - \frac{T_{2}^{\circ}}{R_{2}} + Z^{\circ} = 0 \qquad (3.1)$$

$$\frac{1}{A_{1}A_{2}} \left\{ \frac{\partial A_{2}M_{1}^{\circ}}{\partial \alpha_{1}} + \frac{\partial A_{1}M_{2}^{\circ}}{\partial \alpha_{2}} + \frac{\partial A_{1}}{\partial \alpha_{2}} M_{12}^{\circ} - \frac{\partial A_{2}}{\partial \alpha_{1}} M_{2}^{\circ} \right\} - T_{12}^{\circ} = 0 \quad (1 \rightleftharpoons 2)$$

$$T_{12}^{\circ} - T_{21}^{\circ} + \frac{M_{12}^{\circ}}{R_{1}} - \frac{M_{21}^{\circ}}{R_{2}} = 0$$

In this equation A_1 , A_2 are the Lamé parameters; Z^0 , X_1 and X_2 are components per unit area of the force and thermal loadings distributed over the initial surface; T^0_{ij} , M^0_{ij} are the fictitious forces and moments arising in the section of the shell from the combination of the force and thermal loadings. The author has shown (Ref.1) that the deformation of any shell having thermal expansion, and in the general case, elastic Card 3/4

	S/179/60/000/006/029/036 E081/E135	
Deformation Thickness	n of Shells with Variable Thermal Expansion Through the	40
adding unit reaction of to all edge and it is a elastic dis modulus, by	, varying through the thickness can be determined by form volume expansion to the deformation caused by the f the supports, and applying a "thermal" bending moment es of the shell. The solutions of (3.1) are analysed shown that the concept is also justified for large splacements and for shells in which not only elastic at also Poisson's ratio, are both variable through the	X ⁴⁵
thickness.	Soviet references.	
thickness.	그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그는 그 그는 그 그는 그 그는 그 그는 그 그를 다 그 그는 그 그는	50
There are	Soviet references.	50
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There are	Soviet references.	

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S/179/61/000/002/016/017 E081/E141

AUTHOR:

Aksel'rad, E.L. (Leningrad)

TITLE:

The theory of inhomogeneous anisotropic shells,

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1961, No.2,

pp. 164-168

The paper is a continuation of previous work of the TEXT: present author (Ref.7: Izv. AN SSSR, OTN, 1958, No.6; Ref.10: the present journal, 1959, No.5). It is assumed that the shell is thin, that the material is orthotropic and, in the general case, that the elastic constants vary with position. The stress-strain equations and the equation for potential energy are stated, together with the expressions for moments and forces in the shell. The simplified equations corresponding to the momentless case and to the case of pure bending are derived. An estimate is made of the errors in the potential energy expression due to the simplifications, and a comparison is made between the differential equation of bending for inhomogeneous plates and the one applicable to homogeneous plates. The possibility of applying the Card 1/2

5/179/61/000/002/016/017 E081/E141

The theory of inhomogeneous anisotropic shells

solutions obtained for homogeneous plates to inhomogeneous plates is pointed out. S.A. Ambartsumyan and L. Librescu are mentioned for their contribution in this field.

There are 1 figure and 10 references: 8 Soviet-bloc and 2 non-Soviet-bloc. The two English language references read as follows: Ref. 4: W.G. Soper. Large deflections of stiffened plates. J. Appl. Mech. 25, 4, Dec. 1958.

Ref.5: W.H. Hoppman. Bending of orthogonally stiffened plates. J. Appl. Mech., 1955, v. 22, p. 267.

SUBMITTED: March 28, 1960

Card 2/2

Bending of thin-walled bars in case of considerable elastic displacements. Isv.AN SSSR.Otd.tekh.nauk.Mekh.i m.shinostr. no.3:124-132 My-Je '61. (Elastic rods and wires)

Heavy axisymmetrical flexures of a hollow shell of revolution subjected to heating and loading, Rasch.prostr.konstr. no.6: 275-298 '61. (MIRA 15:3)

(Elastic plates and shells)

Design of vibratory for no.7:16-20 Jl '61.	eed mechanisms	for bunkers.	Vest.mash. 41 (MIRA 14:6)	
10°4:10-50 11 .01°	(Feed mecha	misms)	(MICH 1480)	,
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		4		
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5/179/62/000/001/013/027 E114/E181

10.6200

AUTHOR:

Akselirad, E.L. (Leningrad)

TITLE:

Bending and loss of stability of thin-walled tubes

subjected to hydrostatic pressure

FERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye

tekhnicheskikh nauk. Mekhanika i mashinostroyeniye,

no.1, 1962, 98-114

When a thin-walled tube bends, its deformed crosssection and the changed curvature lead to a redistribution of stresses and a displacement of the points of application of internal forces. The bending of the tube changes its stiffness. A point can be reached beyond which the tube will continue deflecting without further increase of the bending moment, i.e. the tube loses its stability. The article deals with the nonlinear problem of bending of a tube of any cross-section and in particular with a method of stress analysis for tubes used for pressure measurements, which takes into account the non-linearity of deformation and does not require any arbitrary assumptions about the shape of the cross-section or of deformation other than Card 1/4.

S/179/62/000/001/013/027 E114/E181

Bending and loss of stability of ... the usual assumptions about thin shells. The general equations are simplified to be applicable only to bars, and are shown to differ from the equations of pure bending by the presence of terms containing functions of the distributed external loads applied to the tube walls and of length. The shape of the crosssection of the rod is expressed as a sine and a cosine pair of functions which are expanded into converging series. If the cross-sectional shape is relatively simple, it is necessary to consider only the first two or three terms in each series. For instance, the greater the ratio of an ellipse the slower is the convergence of the series, and it is shown graphically that, for the ratio of 2.7 it is quite adequate to consider only the first three or even only the first two terms in the series. For sections which are nearly circular, two terms are always adequate. Simplified functions are calculated for the case of a uniform normal pressure; expressions for the slope and the stress function are derived for a case of pure bending with uniform normal pressure. Approximate solutions are obtained by discarding the non-linear terms in computation. Expressions Card 2/4

Bending and loss of stability of ... $\frac{5/179/62/000/001/013/027}{Ell^{4}/El81}$

subjected to uniform normal pressure is considered, and simplified equations are given for sections which are nearly circular. Deformation under normal uniform pressure is considered for tubes with fixed ends and with one end free, and it is noted that the error introduced by the omission of non-linear terms is small.

There are 5 figures and 2 tables.

SUBMITTED: May 8, 1961

Card 4/4

Large axisymmetrical flexures of a plate. Rasch.prostr.konstr.
no.7:193-204 '62. (Elastic plates and shells)

MOVNIN, M.S., doktor tekhn.nauk, prof.; AKSEL'RAD, E.L., kand.tekhn.nauk Simple calculation of natural frequencies of bending vibrations of shafts. Vest.mashinostr. 42 no.8:18-22 Ag '62. (MIRA 1 (Shafting-Vibration)

CIA-RDP86-00513R000100710020-0" **APPROVED FOR RELEASE: 06/05/2000**

AKSEL'RAD, E.L. (Leningrad)

Calculation of a corrugated diaphragm as a nonshallow shell. Izv.AN SSSR.Mekh. i mashinostr. no.5:67-76 S-0 '63. (MIRA 16:12)

AKSEL'RAD, E.I. (Leningrad)

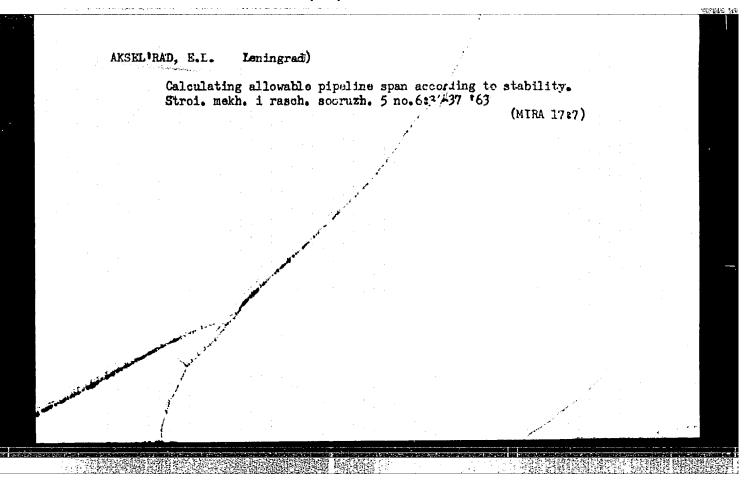
Heavy flexures of a corrugated diaphragm analyzed as a nonshallow shell. Izv.AN SSSR. Mekh.i mashinostr. no.1:46-53 Ja-F '64.

(MIRA 17:4)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100710020-0

POSTCARD 5/0179/64/000/001/0046/0053 AP4018424 ACCESSION NRI AUTHOR: Aksel' rad, E. I. (Leningrad) TITLE: Large deflections of a corrugated disphrage consi nonshallow shall Isv. Otd. tekh. SOURCE: AN SSSR. no. 1, 1964, 46-53 TOPIC TAGS: corrugated disphragm, shell design, disphragm design, diaphragm deflection ABSTRACT: The design of concentrically corrugated circular diaphragms is discussed by considering the corrugation wave as a deep shell and taking into account the form and pitch of corrugation and the type of edge clamping. The basic equations describing the deformation of the disphragm under large deflections are solved by the Bubnov-Galerkin method, and formulas are derived for determining the nonlinear deflection characteristic of a disphragm with uniform sinusoidal corrugation and a flat center. The design technique for disphragms having a nonuniform type of corrugation is also mentioned. The results obtained Cord 1/2



AKSEL'RAD, E.L. (Leningrad)

Considering the geometrical nonlinearity for the specification of the upper ultimate load in pipe bending. Izv.

AN SSSR.Mekh. no.4:133-139 Jl-Ag '65.

(MIRA 18:12)

MIKHALCHENKOV, M.; BUKREYEV, P.; AKSEL'ROD, A., kand. arkhitektury

Results of the open competition for farmhouse designs. Sel'.stroi. 13 no.2: 19-21 F'59. (MIRA 12:3)

1. Direktor instituta "Rosgiprosel'stroy" (for Mikhalchenkov). 2. Machal'nik tekhnicheskogo otdela instituta "Rosgiprosel'stroy" (for Bukreysv).

(Farmhouses)

(Architecture-Designs and plans-Competitions)

AKSEL ROD. A.A.

Luminescent analysis in thoracic surgery. Zdravookhranenie 4 no. 2:33-35 My-Ap '61. (MIRA 14:4)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - dotsent N.Kh. Anestiadi) Kishinevskogo meditsinskogo instituta.

(DIAGNOSIS, FLUOROSCOPIC) (CHEST—SURGERY)

AKSEL'ROD, A.A.

Spontaneous rupture of the spleen. Zdravookhranenie 5 no.1:21-24 Ja-F '62. (MIRA 15:4)

1. Iz kafedry fakul¹tetskoy khirurgii (zav. dotsent N.Kh.Anestiyadi) Kishinevskogo meditsinskogo instituta. (SPLEEN--HERNIA)

AKSEL'ROD, A.A.; KALENICH, S.M.

Fibroma of the mesentery of the jejunum. Zdravookhranenie 5 no.1: 60 Ja-F '62. (MIRA 15:4)

1. Iz rayonnoy bol'nitsy p.Rezina (glavnyy vrach N.I.Gromova). (JEJUNUM--TUMORS)

POZDNYAKOV, K.A., inzhener; AKSEL'ROD, A.I., inzhener: BAKUMENKO, S.P., inzhener.

Setting up the contacts of mercury controllers used in hydraulic accumulators. Vest.mash.36 no.7:58 Jl *56. (MIRA 9:9) (Electric controllers) (Hydraulic machinery)

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	Mar/Apr 49	ree Anchor Inst of Fre-	•	nletor, made up system linked with any angle of pullude of oscillation sent	Mar/Apr 49	f the period upon the basic parameters of characteristics of the certaint of the coefficient of regime describing the able.		41/49230		
		"An Escapement Speed-Regulator With Free Anchor Movement," A. M. Aksel'rod, Leningrad Inst of P cision Mech and Opt, 14 pp	. X, Mo 2			Logarage +				
	ring ors, Speed s, Speed	nt Speed-Regulat. M. Aksel'rod, and Opt, 14 pp	"Artomet i Telemekh" Vol X, No	Discusses an escapement speed-refor an oscillatory balance-spring the free anchor movement without Obtains dependence of the amplituator the moment applied the movement	ering (Contd)	depend salcula Establ letermi nagnit Prove ulator		•		
	USSR/mgineering Regulatore, Controls, S	"An Escapement S Movement," A. M. cision Mech and	"Avtomet 1 I	Discusses are of an oscillative free and obtains dependent	UBSR Engineering	connection, and Laplitude from o the regulator, regulator, and d in terms of the nonequilibrium.				

VUL'PE, O.L.; AKSEL'ROD, A.S., inzh.

True road of technological progress. Stroi.mat. 10 no.4:18-19
Ap '64.

(MIRA 17:5)

1. Glavnyy inzhener Kazakhskogo instituta Giprostrom (for Vul'pe).

AKSEL'ROD, A.Z., inzh.

Adjustment of a preliminary purification system for preparing and proportioning milk of lime. Energetik 11 no.1:30-31 Ja 63. (MIRA 16:1)

(Boilers-Cleaning) (Feed-water purification)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100710020-0"

AKSEL'ROD, A.Z., inzh.

Decrease of oxygen content in turbine condensate. Energetik 12 no.6:13 Je '64. (MIRA 17:9)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100710020-0"

AKSEL'ROD, D.G.

Communications workers of the Ukraine share their experience with those of Kazakhstan. Vest.sviazi 16 no.10:26 0 '56. (MIRA 10:10)

1. Starshiy inshener otdela truda i zarabotnoy platy Ministerstva svyazi USSR.

(Ukraine--Telecommunication)

Public inspection of the organization of work norms and wages. Vest.sviaxi 16 no.11:26 N '56. (MIRA 10:1) 1. Starshiy inshener otdela truda i sarabotnoy platy Ministerstva svyazi USSR. (Ukraine--Telecommunication)

AKSEL'ROD, D.G.

Competition for the title of brigade of communist labor. Vest. sviazi 19 no.7:21-22 J1 '60. (MIRA 13:8)

1. Starshiy inzhener otdela truda i zarabotnov platy Ministerstva svyazi USSR.

(Telecommunication)

AKSEL'ROD, D.G.

Dessemination of advanced experience in interurban telephone offices. Vest. sviazi 17 no.7:28-29 J1 '57. (MIRA 10:8)

1. Starshiy inzhener Otdela truda i zarabotnoy platy Ministerstva svyazi USSR.

(Telephone)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100710020-0"

GOLOVCHENKO, I.A.; AKSEL'ROD, D.G., inzh.

Publicize the latest practices of telephone workers. Vest. sviezi 19 no.11:22 N 159. (MIRA 13:8)

l. Zamestitel' nachal'nika upravleniya elektrosvyazi i radiofikatsii Ministerstva svyazi USSR (for Golovchenko). (Telephone—Employees)

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100710020-0

AKSEL'ROD, D. M.	(DECEASED)	1963/2
MEDICINAL PLANTS	c' 1961	
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	보다 함께 발표 사실하다는 공명 그 있는데 함께 발표하는 사실을 하는 것이 되었다.	
	see IIC	

BERNSHTEYN, S.A.; AKSEL'ROD, D.S.; SAVVINA, M.D.; SLAVUTSKIY, S.M., otv. red.; KRASOVSKIY, I.P., red. izd-va

[New, more waterproof types of concrete with lower consumption of slag portland cement] Novye vidy betonov povyshennoi vodo-nepronitsaemosti s ponizhennym raskhodom shlakoportland-tsementa; informatsionnoe soobshchenie. Moskva, Gosgortekhizdat, 1962. 7 p. (MIRA 16:3)

(Concrete)

AKSEL'ROD, E. I., Engineer.

"Investigation of the Combustion of Rich Mixtures in Engines." Sub 27 Sep 51, Moscow Automobile and Road Inst imeni V. M. Molotov.

Dissertations presented for science and engineering degrees in Moscow during 1951. SO: Sum. No. 480, 9 May 55.

AKSEL ROD, E.I.

Results of testing and adjusting Diesel engine 4 th 42.5 . Energ.biul. no.8:12-15 Ag 153. (MLRA 6:8) (Diesel motor)

AKSEL'ROD, E.I.

AID P - 803

Subject

: USSR/Engineering

Card 1/1

Pub. 28 - 2/7

Author

Aksel'rod, E. I.

Title

Results of factory test of the 1D $\frac{26}{30}$ engine

Periodical: Energ. byul., #8, 5-8, Ag 1954

Abstract

: Factory test of a 45-hp one-cylinder two-cycle diesel engine (200 mm dia x 300 mm stroke) is described. The data for test condition and the results of the test

are given in one table and 5 charts.

Institution :

None

Submitted

No date

Regulating and testing s $\mathbb{D}R\left(4ch,\frac{42.5}{60}\right)$ engine. Energ.biul. no.11: 9-13 N '54. (MLRA 7:11) (Gas and oil engines--Testing)

18(7) AUTHOR:

Aksel'rad, E.I., Assistant

SOV/146-58-4-17/22

TITLE:

The Deformation of a Cantilever Bimetallic Plate During

Heating

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Priborostrove-

niye, 1958, Nr 4, pp 108-116 (USSR)

ABSTRACT:

Bimetallic plates manufactured according to the diagrams shown in Figure 1 and Figure 2, find spread application as thermo-elements in instruments. The formula for the calculation of the deformation of bimetallic strips /Ref 1/ may provide essential errors according to /Ref 2/. Using the method of L.V. Kantorovich /Ref 5/, the author presents a calculation method which makes the aforementioned formula more accurate. He compares experimental data with calculated values and shows that the calculation of the bending and angle of rotation of a bimetallic plate, as shown in Figure 1, deviate in the first and second approxima-

Card 1/2

tion by less than 3%.

AKSEL'ROD, E.I., dotsent; SHPAKHLER, A.G., starshiy prepaodavatel'

Briequetting coal and anthracite mixtures treated with fuel gases. Izv.vys.ucheb.zav.; gor.zhur. 5 no.9:165-168 '62. (MIRA 15:11)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy institut imeni Artema. Rekomendovana kafedroy obogashcheniya poleznykh iskopayemykh.

(Briquets (Fuel))

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100710020-0"

SHPAKHLER, A.G.; AKSEL'ROD, E.I.; KOTKIH, A.M.; SOLOV'YEV, A.V.; ZEL'DIN, B.B.

Improving the manufacture technology in coal briquet plants. Ugol! Ukr. 6 no.2:17-19 F '62. (MIRA 15:2)

Dnepropetrovskiy gornyy institut (for Shpakhler, Aksel'rod).
 UkrNIIUgleobogashcheniye (for Kotkin, Solov'yev).
 Donetskgiproshakht (for Wel'din).
 (Briquets (Fuel))

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100710020-0"

ACC NR: AP6030356 SOURCE CODE: UR/0424/66/000/002/00	0117000
AUTHOR: Aksel'rad, E. L. (Leningrad)	23
ORG: none	D
TITIE: Feriodic solution of axisymmetrical problem in the theory of shells	26
SOURCE: Inzhenernyy zhurnal. Mekhanika tverdogo tela, no. 2, 1966, 77-83	, P
TOPIC TAGS: shell theory, axisymmetrical body	
ABSTRACT: An analysis is made of periodic solution of the equations for large displacements of rotation shells and the bending of thin-walled working shafts The Meissner functions are found in the form of trigonometric series; nonlinearity is taken into consideration by expansion by powers of parameters of change in curvature of the rod and load. The solution produced is developed in detail for bellows. Orig. art. has: 4 figures, 9 formulas and 1 table. [JPRS: 36,581]	•
SUB CODE: 22 / SUBM DATE: 07Jul65 / ORIG REF: 008	1
ns.	
Card 1/1	1

H DOTOS-O(EWP(k)/EWT(d)/EWT(m)/EWP(W)/EWP(V) IJP(c) EM/WW ACC NR: AT6022503 SOURCE CODE: UR/2779/65/000/010/0101/0118 AUTHOR: Aksel'rad, E. L. (Candidate of technical sciences; Leningrad) TITLE: Stability of a closed circular cylindrical shell under bending SOURCE: Raschet prostranstvennykh konstruktsiy; sbornik statey. no. 10, 1965, 101-118 TOPIC TAGS: shell theory, cylindric shell structure, shell structure stability, pipe-ABSTRACT: The author considers a closed cylindrical shell and derives formulas for determining the critical load which results in dents on the distorted and flattened surface of a thin-walled tube subjected to bending moments at the ends. The critical stress is calculated with regard to the increase in the radius of curvature of the wall in the zone of stability loss during subcritical bending. The limiting case of a cylinder which is so long that fastening of the ends has little effect on the subcritical deformation is considered as well as the case of a cylinder which is so short that deformation of the cross section before loss of stability may be disregarded. The effect of initial irregularities in shape (dents) on the stability of a tube during bending is considered assuming that the pipe is extremely long. A formula is derived for determining the maximum span of an underground pipeline between supports with respect to stability conditions. Orig. art. has: 8 figures, 67 formulas. SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 017/ OTH REF: 004 Card

SOY/135-58-12-12/20

AUTHORS:

Aksel'rod, F.A., Zaytsev, M.P., Engineers

TITLE:

A Seam Welding Machine for Welding Stainless Steel Parts of Different Thickness (Shovnaya mashina dlya svarki detaley raznoy tolshchiny iz nerzhaveyushchey stali)

PERIODICAL:

Svarochnoye proizvodstvo, 1958, Nr 12, pp 33-35 (USSR)

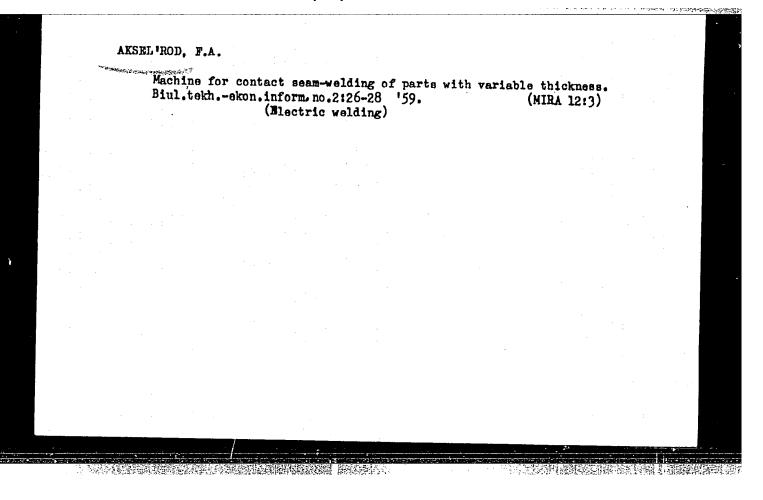
ABSTRACT:

Detailed information is presented on a machine designed by VNIIESO for welding annular hermetic seams in stainless steel parts of different thickness, with 0.01 sec. pulse duration. The parts to be welded are compressed by special devices fixed in a drum-type driving head. The driving head rotates in a rigid bearing and is actuated by worm gears from a "BP-1" type driving gear (designed by Engineer B.I. Nikonov). The machine is equipped with a synchronous ignitron breaker ensuring stable and high-quality weld joints.

There is 1 photo, 2 diagrams, 1 circuit diagram and 1 oscillo-

ASSOCIATION: VNIIESO

Card 1/1



AKSEL'ROD, Feliks Aronovich; GUL'DENBAL'K, Aleksey Pavlovich;
ZAYTSEV, Mikhail Pavlovich; YURINOV, V.H., nauchnyy red.;
BONDAROVSKAYA, G.V., red.; PERSON, M.H., tekhn. red.

[Fundamentals of electrical engineering and electronics; a manual for electric welders] Osmovy elektrotekhniki i elektoniki; dlia elektrosvarshchikov. Moskva, Vses. uchebnopedagog. izd-vo Proftekhizdat, 1961. 183 p. (MIRA 15:2)

(Electric engineering) (Electronics) (Electric wolding—Handbooks, manuals, etc.)

AKSEL'ROD, F.A., inzh.; ZAYTSEV, M.P., kand. tekhn. nauk; ZLOBIN, G.I., inzh.; KOCHERGIN, K.A., kand. tekhn. nauk; NEKRASOV, B.M., inzh.; SLIOZEERG, S.K., nauchnyy red.; DONSKOY, A.V., nauchnyy red.; DEMYANTSEVICH, V.P., nauchnyy red.; SARAFANOV, S.G., nauchnyy red.; BONDAROVSKAYA, G.V., red.; DORODNOVA, L.A., tekhn. red.; PERSON, M.N., tekhn. red.

[Resistance welding]Kontaktnaia svarka. [By] F.A.Aksel'rod i dr. Moskva, Proftekhizdat, 1962. 463 p. (MIRA 15:12) (Electric welding)

AKSEL'ROD, F.M.

Determination of free hydrochloric acid in the presence of organic acids and chlorides. Vop. pit. 2 no.6:84-85 N-D 162.

(MIRA 17:5)

1. Iz laboratorii neorganicheskoy i anallticheskoy khimii (zav. - dotsent B.I. Leonov) Kishinevskogo meditsinskogo instituta.

AKSEL'ROD, G., laureat Stalinskoy premii.

Two-sided stamping. Izobr. i rats. no. 5:50-51 My '61.

(MIRA 14:5)

MANUYLOV, K.N.; AKSEL'ROD, G.S.; SHESTOPALOV, L.A.

Clock mechanisms for hydrometeorological instruments. Trudy

NIIGHP no.8:90-98 '59. (MIRA 13:4) (Meteorological instruments) (Clocks and watches)

AKSEL'ROD; I., kand. tekhn. nauk; MOSHCHEVITIN, G., inzh.

Efficient methods for earthwork operations to be carried out under winter conditions. Na stroi. Mosk. 2 no.9:4-5 S 159. (MIRA 13:2)

(Earthwork-Cold weather conditions)

AKSEL'ROD, I.I., inzh.

Dietribution air conduit designed by K.K.Baulin. Vod. i san. tekh.
nc.1233 Ja '65. (MIRA 1823)